

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **10330103 A**

(43) Date of publication of application: **15.12.98**

(51) Int. Cl.

C01B 15/029

(21) Application number: **09138258**

(22) Date of filing: **28.05.97**

(71) Applicant: **SUMITOMO CHEM CO LTD**

(72) Inventor:
GOTO FUMIAKI
TANAKA KOZO
SASAKI TOSHIO

(54) PRODUCTION OF AQUEOUS HYDROGEN PEROXIDE SOLUTION

(57) Abstract:

PROBLEM TO BE SOLVED: To suppress the decomposition of hydrogen peroxide and obtain an aqueous hydrogen peroxide solution having a high concentration by reacting hydrogen with oxygen in a reaction solvent containing the carboxylic acid salt of a platinum group metal.

SOLUTION: This method for producing an aqueous hydrogen peroxide solution comprises charging 1 mg to 10 g, preferably 1 mg to 1 g, of a particulate platinum group metal 1-5C carboxylic acid salt selected from

palladium acetate, palladium oxalate, palladium trifluoroacetate, rhodium acetate, rhodium trifluoroacetate, etc., and having a specific surface area of 0.01-10000 m²/g, and 100 ml of a reaction solvent comprising water and/or a 1-4C alcohol into a reaction vessel, charging oxygen and hydrogen in a partial pressure ratio of 1:50 to 50:1 into the reaction vessel and subsequently reacting the oxygen with hydrogen at a pressure of the atmospheric pressure to 150 kg/cm².G, preferably 5-50 kg/cm².g, at 5-60°C, preferably 10-50°C. The method does not require a process for removing an additive such as an acid, a halide ion or formaldehyde.

COPYRIGHT: (C)1998,JPO